

ABSTRACT OF THE DISCLOSURE

10 A method and system are provided for dynamically shortening a
number of error correction codewords to correspond to an amount of user data to
be recorded on a recording medium. The system and method determine in advance
that the number of bytes of user data will only fill a portion of a codeword matrix,
and automatically shortens the size of ECC word segments to match the actual user
data fill. This allows an ECC interleave to be completed with only a partial fill of
the matrix, thereby reducing the required number of recording passes and associated
15 processing time.